



10050452007
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CTR Presentations, 12/11/80

WV Gardner

Exposure of mice to fresh, whole smoke / ~~microbiological bases~~

To be completed 1981 - no further studies contemplated

3 Expts completed - 2/81 ref cig - (80 mice)

1 - No effect on incidence of lung tumors in mice
except mice

2 - Cont & gen didn't change incidence/age of onset

3 - Comb. to BAP + litter, in mice cig

3 - Exposure to his to mice cigs - To be completed June '81

DNA damage in lung.

Exp to smoke did result in new lung cells, reduced DNA repair (reduced DNA synthesis)

Epidemiology

Kaisan - Permanent - Effects of smoking & quitting

Swedish twins - lower ca incidence for lungs & other sites for twins than gen. pop.

Angina -

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Nicotine

Cardiovascular disease

Ford - Smoking + fetal development ^{after labour}

Stone - Nicotine in large doses can interfere ^{with} ~~with~~ various aspects of fetal development; but in smaller doses effects are minimal

Another investigator finds ~~not~~

Proposed program

Evaluate effects of nicotine & smoke as well as other agents like alcohol

Multidisciplinary

Examine effects on successive generations

Budget should be reviewed in prep. for action at Annual mtg on Jan. 30.

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Research Review Committee

1 - Cotinine study (Spears)

Awaiting ok for Phase 1

Determination of cotinine in air

If nicotine present in suff. concentrations

Simultaneously looking for groups to do the work.

2 - Riley proposal

3 - Passive dosimeters. Are they appropriate devices
for measuring smoke exposure

4 - Formaldehyde problem

See research proposal from Simkus to Spears -

Indicate whether PM willing investigator

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CANCER STUDIES REPORTED IN 1969 (FOR 2nd MEETING, OCTOBER 1969)

CANCER AND POLYNUCLEAR AROMATIC HYDROCARBONS BIOASSAY STUDIES	CHEMICAL CARCINOGENS (Non-PAN)	CIGARETTE SMOKERS: CONSIDERATION OF THE Animal Studies	INTERDISCIPLINARY STUDIES/REVIEW	EFFECTS OF VARIOUS SUBSTANCES (Chemical/Substance)	ANIMAL AND CANCER CONSIDERATION	I. ANTI-INVASIVE FACTORS; PROTEASES ETC.	IMMUNE RESPONSE (Animal/Human) Continued	HUMAN STUDIES (Non-INTERDISCIPLINARY SUBJECT)	SOME PAPERS (CONTINUED)
						II. BIOLOGICAL EFFECTS	III. GENETIC EFFECTS	IV. IMMUNE RESPONSE (Human)	
1. Polymerization Studies Armen (P1024210)	Animal Studies Continued					1. Metaplasia	1. Role of Macrophage		IV. Model for CAN Formation Liu (1024211)
2. Relationships to Carcinogenic PAN Compounds				1. Metaplasia	1. Metaplasia	a. Colorectal Transference Wolf (P1024212)	a. Normal/activated Macrophage Dance (P1024213)	5. Oncogenic Transformation: Malignant (P1024214)	
3. (a) Indirect in Cigarette Smoke				2. Cytotoxicity	2. Cell Death	b. Oral Carcinogenesis: Vitamin A and Retinol Miller (P1024215)	b. Cytotoxicity Suzuki (P1024216)	6. Oncogenic Transformation: Normal (P1024217)	
(b) Direct				3. Transplacental Effects	3. Cell Death	c. Cell and Molecular Mechanisms (P1024218)	c. Cell and Molecular Mechanisms (P1024219)	7. Oncogenic Transformation: Carcinogen (P1024220)	
4. Carcinogenesis and Metabolism of PAN Compounds in Cell Culture and Tissue				4. Teratogenicity	4. Cell Death	d. Cell and Molecular Mechanisms (P1024221)	d. Cell and Molecular Mechanisms (P1024222)	8. Cell Transformation: Carcinogen (P1024223)	
5. (a) Direct				5. Teratogenicity	5. Cell Death	e. Cell and Molecular Mechanisms (P1024224)	e. Cell and Molecular Mechanisms (P1024225)	9. Cell Transformation: Carcinogen (P1024226)	
(b) Indirect				6. Teratogenicity	6. Cell Death	f. Cell and Molecular Mechanisms (P1024227)	f. Cell and Molecular Mechanisms (P1024228)	10. Cell Transformation: Carcinogen (P1024229)	
6. (a) Direct				7. Teratogenicity	7. Cell Death	g. Cell and Molecular Mechanisms (P1024230)	g. Cell and Molecular Mechanisms (P1024231)	11. Cell Transformation: Carcinogen (P1024232)	
(b) Indirect				8. Teratogenicity	8. Cell Death	h. Cell and Molecular Mechanisms (P1024233)	h. Cell and Molecular Mechanisms (P1024234)	12. Cell Transformation: Carcinogen (P1024235)	
7. (a) Direct				9. Teratogenicity	9. Cell Death	i. Cell and Molecular Mechanisms (P1024236)	i. Cell and Molecular Mechanisms (P1024237)	13. Cell Transformation: Carcinogen (P1024238)	
(b) Indirect				10. Teratogenicity	10. Cell Death	j. Cell and Molecular Mechanisms (P1024239)	j. Cell and Molecular Mechanisms (P1024240)	14. Cell Transformation: Carcinogen (P1024241)	
8. (a) Direct				11. Teratogenicity	11. Cell Death	k. Cell and Molecular Mechanisms (P1024242)	k. Cell and Molecular Mechanisms (P1024243)	15. Cell Transformation: Carcinogen (P1024244)	
(b) Indirect				12. Teratogenicity	12. Cell Death	l. Cell and Molecular Mechanisms (P1024245)	l. Cell and Molecular Mechanisms (P1024246)	16. Cell Transformation: Carcinogen (P1024247)	
9. (a) Direct				13. Teratogenicity	13. Cell Death	m. Cell and Molecular Mechanisms (P1024248)	m. Cell and Molecular Mechanisms (P1024249)	17. Cell Transformation: Carcinogen (P1024250)	
(b) Indirect				14. Teratogenicity	14. Cell Death	n. Cell and Molecular Mechanisms (P1024251)	n. Cell and Molecular Mechanisms (P1024252)	18. Cell Transformation: Carcinogen (P1024253)	
10. (a) Direct				15. Teratogenicity	15. Cell Death	o. Cell and Molecular Mechanisms (P1024254)	o. Cell and Molecular Mechanisms (P1024255)	19. Cell Transformation: Carcinogen (P1024256)	
(b) Indirect				16. Teratogenicity	16. Cell Death	p. Cell and Molecular Mechanisms (P1024257)	p. Cell and Molecular Mechanisms (P1024258)	20. Cell Transformation: Carcinogen (P1024259)	
11. (a) Direct				17. Teratogenicity	17. Cell Death	q. Cell and Molecular Mechanisms (P1024260)	q. Cell and Molecular Mechanisms (P1024261)	21. Cell Transformation: Carcinogen (P1024262)	
(b) Indirect				18. Teratogenicity	18. Cell Death	r. Cell and Molecular Mechanisms (P1024263)	r. Cell and Molecular Mechanisms (P1024264)	22. Cell Transformation: Carcinogen (P1024265)	
12. (a) Direct				19. Teratogenicity	19. Cell Death	s. Cell and Molecular Mechanisms (P1024266)	s. Cell and Molecular Mechanisms (P1024267)	23. Cell Transformation: Carcinogen (P1024268)	
(b) Indirect				20. Teratogenicity	20. Cell Death	t. Cell and Molecular Mechanisms (P1024268)	t. Cell and Molecular Mechanisms (P1024269)	24. Cell Transformation: Carcinogen (P1024270)	
13. (a) Direct				21. Teratogenicity	21. Cell Death	u. Cell and Molecular Mechanisms (P1024271)	u. Cell and Molecular Mechanisms (P1024272)	25. Cell Transformation: Carcinogen (P1024273)	
(b) Indirect				22. Teratogenicity	22. Cell Death	v. Cell and Molecular Mechanisms (P1024274)	v. Cell and Molecular Mechanisms (P1024275)	26. Cell Transformation: Carcinogen (P1024276)	
14. (a) Direct				23. Teratogenicity	23. Cell Death	w. Cell and Molecular Mechanisms (P1024277)	w. Cell and Molecular Mechanisms (P1024278)	27. Cell Transformation: Carcinogen (P1024279)	
(b) Indirect				24. Teratogenicity	24. Cell Death	x. Cell and Molecular Mechanisms (P1024279)	x. Cell and Molecular Mechanisms (P1024280)	28. Cell Transformation: Carcinogen (P1024281)	
15. (a) Direct				25. Teratogenicity	25. Cell Death	y. Cell and Molecular Mechanisms (P1024282)	y. Cell and Molecular Mechanisms (P1024283)	29. Cell Transformation: Carcinogen (P1024284)	
(b) Indirect				26. Teratogenicity	26. Cell Death	z. Cell and Molecular Mechanisms (P1024284)	z. Cell and Molecular Mechanisms (P1024285)	30. Cell Transformation: Carcinogen (P1024286)	
16. (a) Direct				27. Teratogenicity	27. Cell Death	aa. Cell and Molecular Mechanisms (P1024286)	aa. Cell and Molecular Mechanisms (P1024287)	31. Cell Transformation: Carcinogen (P1024288)	
(b) Indirect				28. Teratogenicity	28. Cell Death	ab. Cell and Molecular Mechanisms (P1024288)	ab. Cell and Molecular Mechanisms (P1024289)	32. Cell Transformation: Carcinogen (P1024290)	
17. (a) Direct				29. Teratogenicity	29. Cell Death	ac. Cell and Molecular Mechanisms (P1024290)	ac. Cell and Molecular Mechanisms (P1024291)	33. Cell Transformation: Carcinogen (P1024292)	
(b) Indirect				30. Teratogenicity	30. Cell Death	ad. Cell and Molecular Mechanisms (P1024292)	ad. Cell and Molecular Mechanisms (P1024293)	34. Cell Transformation: Carcinogen (P1024294)	
18. (a) Direct				31. Teratogenicity	31. Cell Death	ae. Cell and Molecular Mechanisms (P1024294)	ae. Cell and Molecular Mechanisms (P1024295)	35. Cell Transformation: Carcinogen (P1024296)	
(b) Indirect				32. Teratogenicity	32. Cell Death	af. Cell and Molecular Mechanisms (P1024296)	af. Cell and Molecular Mechanisms (P1024297)	36. Cell Transformation: Carcinogen (P1024298)	
19. (a) Direct				33. Teratogenicity	33. Cell Death	ag. Cell and Molecular Mechanisms (P1024298)	ag. Cell and Molecular Mechanisms (P1024299)	37. Cell Transformation: Carcinogen (P1024299)	
(b) Indirect				34. Teratogenicity	34. Cell Death	ah. Cell and Molecular Mechanisms (P1024299)	ah. Cell and Molecular Mechanisms (P1024300)	38. Cell Transformation: Carcinogen (P1024301)	
20. (a) Direct				35. Teratogenicity	35. Cell Death	ai. Cell and Molecular Mechanisms (P1024301)	ai. Cell and Molecular Mechanisms (P1024302)	39. Cell Transformation: Carcinogen (P1024303)	
(b) Indirect				36. Teratogenicity	36. Cell Death	aj. Cell and Molecular Mechanisms (P1024303)	aj. Cell and Molecular Mechanisms (P1024304)	40. Cell Transformation: Carcinogen (P1024305)	
21. (a) Direct				37. Teratogenicity	37. Cell Death	ak. Cell and Molecular Mechanisms (P1024304)	ak. Cell and Molecular Mechanisms (P1024305)	41. Cell Transformation: Carcinogen (P1024306)	
(b) Indirect				38. Teratogenicity	38. Cell Death	al. Cell and Molecular Mechanisms (P1024305)	al. Cell and Molecular Mechanisms (P1024306)	42. Cell Transformation: Carcinogen (P1024307)	
22. (a) Direct				39. Teratogenicity	39. Cell Death	am. Cell and Molecular Mechanisms (P1024306)	am. Cell and Molecular Mechanisms (P1024307)	43. Cell Transformation: Carcinogen (P1024308)	
(b) Indirect				40. Teratogenicity	40. Cell Death	an. Cell and Molecular Mechanisms (P1024307)	an. Cell and Molecular Mechanisms (P1024308)	44. Cell Transformation: Carcinogen (P1024309)	
23. (a) Direct				41. Teratogenicity	41. Cell Death	ao. Cell and Molecular Mechanisms (P1024308)	ao. Cell and Molecular Mechanisms (P1024309)	45. Cell Transformation: Carcinogen (P1024310)	
(b) Indirect				42. Teratogenicity	42. Cell Death	ap. Cell and Molecular Mechanisms (P1024309)	ap. Cell and Molecular Mechanisms (P1024310)	46. Cell Transformation: Carcinogen (P1024311)	
24. (a) Direct				43. Teratogenicity	43. Cell Death	ar. Cell and Molecular Mechanisms (P1024310)	ar. Cell and Molecular Mechanisms (P1024311)	47. Cell Transformation: Carcinogen (P1024312)	
(b) Indirect				44. Teratogenicity	44. Cell Death	as. Cell and Molecular Mechanisms (P1024311)	as. Cell and Molecular Mechanisms (P1024312)	48. Cell Transformation: Carcinogen (P1024313)	
25. (a) Direct				45. Teratogenicity	45. Cell Death	at. Cell and Molecular Mechanisms (P1024312)	at. Cell and Molecular Mechanisms (P1024313)	49. Cell Transformation: Carcinogen (P1024314)	
(b) Indirect				46. Teratogenicity	46. Cell Death	au. Cell and Molecular Mechanisms (P1024313)	au. Cell and Molecular Mechanisms (P1024314)	50. Cell Transformation: Carcinogen (P1024315)	
26. (a) Direct				47. Teratogenicity	47. Cell Death	av. Cell and Molecular Mechanisms (P1024314)	av. Cell and Molecular Mechanisms (P1024315)	51. Cell Transformation: Carcinogen (P1024316)	
(b) Indirect				48. Teratogenicity	48. Cell Death	aw. Cell and Molecular Mechanisms (P1024315)	aw. Cell and Molecular Mechanisms (P1024316)	52. Cell Transformation: Carcinogen (P1024317)	
27. (a) Direct				49. Teratogenicity	49. Cell Death	ax. Cell and Molecular Mechanisms (P1024316)	ax. Cell and Molecular Mechanisms (P1024317)	53. Cell Transformation: Carcinogen (P1024318)	
(b) Indirect				50. Teratogenicity	50. Cell Death	ay. Cell and Molecular Mechanisms (P1024317)	ay. Cell and Molecular Mechanisms (P1024318)	54. Cell Transformation: Carcinogen (P1024319)	
28. (a) Direct				51. Teratogenicity	51. Cell Death	az. Cell and Molecular Mechanisms (P1024318)	az. Cell and Molecular Mechanisms (P1024319)	55. Cell Transformation: Carcinogen (P1024320)	
(b) Indirect				52. Teratogenicity	52. Cell Death	ba. Cell and Molecular Mechanisms (P1024319)	ba. Cell and Molecular Mechanisms (P1024320)	56. Cell Transformation: Carcinogen (P1024321)	
29. (a) Direct				53. Teratogenicity	53. Cell Death	bb. Cell and Molecular Mechanisms (P1024320)	bb. Cell and Molecular Mechanisms (P1024321)	57. Cell Transformation: Carcinogen (P1024322)	
(b) Indirect				54. Teratogenicity	54. Cell Death	bc. Cell and Molecular Mechanisms (P1024321)	bc. Cell and Molecular Mechanisms (P1024322)	58. Cell Transformation: Carcinogen (P1024323)	
30. (a) Direct				55. Teratogenicity	55. Cell Death	bd. Cell and Molecular Mechanisms (P1024322)	bd. Cell and Molecular Mechanisms (P1024323)	59. Cell Transformation: Carcinogen (P1024324)	
(b) Indirect				56. Teratogenicity	56. Cell Death	be. Cell and Molecular Mechanisms (P1024323)	be. Cell and Molecular Mechanisms (P1024324)	60. Cell Transformation: Carcinogen (P1024325)	
31. (a) Direct				57. Teratogenicity	57. Cell Death	bf. Cell and Molecular Mechanisms (P1024324)	bf. Cell and Molecular Mechanisms (P1024325)	61. Cell Transformation: Carcinogen (P1024326)	
(b) Indirect				58. Teratogenicity	58. Cell Death	bg. Cell and Molecular Mechanisms (P1024325)	bg. Cell and Molecular Mechanisms (P1024326)	62. Cell Transformation: Carcinogen (P1024327)	
32. (a) Direct				59. Teratogenicity	59. Cell Death	bh. Cell and Molecular Mechanisms (P1024326)	bh. Cell and Molecular Mechanisms (P1024327)	63. Cell Transformation: Carcinogen (P1024328)	
(b) Indirect				60. Teratogenicity	60. Cell Death	bi. Cell and Molecular Mechanisms (P1024327)	bi. Cell and Molecular Mechanisms (P1024328)	64. Cell Transformation: Carcinogen (P1024329)	
33. (a) Direct				61. Teratogenicity	61. Cell Death	bj. Cell and Molecular Mechanisms (P1024328)	bj. Cell and Molecular Mechanisms (P1024329)	65. Cell Transformation: Carcinogen (P1024330)	
(b) Indirect				62. Teratogenicity	62. Cell Death	bk. Cell and Molecular Mechanisms (P1024329)	bk. Cell and Molecular Mechanisms (P1024330)	66. Cell Transformation: Carcinogen (P1024331)	
34. (a) Direct				63. Teratogenicity	63. Cell Death	bl. Cell and Molecular Mechanisms (P1024330)	bl. Cell and Molecular Mechanisms (P1024331)	67. Cell Transformation: Carcinogen (P1024332)	
(b) Indirect				64. Teratogenicity	64. Cell Death	bm. Cell and Molecular Mechanisms (P1024331)	bm. Cell and Molecular Mechanisms (P1024332)	68. Cell Transformation: Carcinogen (P1024333)	
35. (a) Direct				65. Teratogenicity	65. Cell Death	bn. Cell and Molecular Mechanisms (P1024332)	bn. Cell and Molecular Mechanisms (P1024333)	69. Cell Transformation: Carcinogen (P1024334)	
(b) Indirect				66. Teratogenicity	66. Cell Death	bo. Cell and Molecular Mechanisms (P1024333)	bo. Cell and Molecular Mechanisms (P1024334)	70. Cell Transformation: Carcinogen (P1024335)	
36. (a) Direct				67. Teratogenicity	67. Cell Death	bp. Cell and Molecular Mechanisms (P1024334)	bp. Cell and Molecular Mechanisms (P1024335)	71. Cell Transformation: Carcinogen (P1024336)	
(b) Indirect				68. Teratogenicity	68. Cell Death	br. Cell and Molecular Mechanisms (P1024335)	br. Cell and Molecular Mechanisms (P1024336)	72. Cell Transformation: Carcinogen (P1024337)	
37. (a) Direct				69. Teratogenicity	69. Cell Death	bs. Cell and Molecular Mechanisms (P1024336)	bs. Cell and Molecular Mechanisms (P1024337)	73. Cell Transformation: Carcinogen (P1024338)	
(b) Indirect				70. Teratogenicity	70. Cell Death	bt. Cell and Molecular Mechanisms (P1024337)	bt. Cell and Molecular Mechanisms (P1024338)	74. Cell Transformation: Carcinogen (P1024339)	
38. (a) Direct				71. Teratogenicity	71. Cell Death	bu. Cell and Molecular Mechanisms (P1024338)	bu. Cell and Molecular Mechanisms (P1024339)	75. Cell Transformation: Carcinogen (P1024340)	
(b) Indirect				72. Teratogenicity	72. Cell Death	bv. Cell and Molecular Mechanisms (P1024339)	bv. Cell and Molecular Mechanisms (P1024340)	76. Cell Transformation: Carcinogen (P1024341)	
39. (a) Direct				73. Teratogenicity	73. Cell Death	bw. Cell and Molecular Mechanisms (P1024340)	bw. Cell and Molecular Mechanisms (P1024341)	77. Cell Transformation: Carcinogen (P1024342)	
(b) Indirect				74. Teratogenicity	74. Cell Death	bx. Cell and Molecular Mechanisms (P1024341)	bx. Cell and Molecular Mechanisms (P1024342)	78. Cell Transformation: Carcinogen (P1024343)	
40. (a) Direct				75. Teratogenicity	75. Cell Death	by. Cell and Molecular Mechanisms (P1024342)	by. Cell and Molecular Mechanisms (P1024343)	79. Cell Transformation: Carcinogen (P1024344)	
(b) Indirect				76. Teratogenicity	76. Cell Death	bz. Cell and Molecular Mechanisms (P1024343)	bz. Cell and Molecular Mechanisms (P1024344)	80. Cell Transformation: Carcinogen (P1024345)	
41. (a) Direct				77. Teratogenicity	77. Cell Death	ba. Cell and Molecular Mechanisms (P1024344)	ba. Cell and Molecular Mechanisms (P1024345)	81. Cell Transformation: Carcinogen (P1024346)	
(b) Indirect				78. Teratogenicity	78. Cell Death	bb. Cell and Molecular Mechanisms (P1024345)	bb. Cell and Molecular Mechanisms (P1024346)	82. Cell Transformation: Carcinogen (P1024347)	
42. (a) Direct				79. Teratogenicity	79. Cell Death	bc. Cell and Molecular Mechanisms (P1024346)	bc. Cell and Molecular Mechanisms (P1024347)	83. Cell Transformation: Carcinogen (P1024348)	
(b) Indirect				80. Teratogenicity	80. Cell Death	bd. Cell and Molecular Mechanisms (P1024347)	bd. Cell and Molecular Mechanisms (P1024348)	84. Cell Transformation: Carcinogen (P1024349)	
43. (a) Direct				81. Teratogenicity	81. Cell Death	be. Cell and Molecular Mechanisms (P1024348)	be. Cell and Molecular Mechanisms (P1024349)	85. Cell Transformation: Carcinogen (P1024350)	
(b) Indirect				82. Teratogenicity	82. Cell Death	bf. Cell and Molecular Mechanisms (P1024349)</			

CARDIOVASCULAR STUDIES SUPPORTED IN 1980 (FOR SAB MEETING, OCTOBER, 1980)
 (SEE ALSO - EPIDEMIOLOGICAL/PHARMACOLOGICAL SECTIONS)

BLOOD FLOW/PRESSURE (SMOKE: NICOTINE CO) (DOG/RAT AND HUMAN)	ARTERIOSCLEROSIS THROMBOSIS	PLATELETS	ANGIOTENSIN: PROSTAGLANDINS	HUMAN STUDIES ALLERGY	HUMAN STUDIES SMOKING-CORONARY HEART DISEASE
<p>a. Nicotine-Induced Reflex Coronary Vasodilation (Conscious Dog) Vatner (#974BR2)</p> <p>b. Direct Effects of Nicotine on Brain Circulation (dog) Vatner (#1326)</p> <p>c. Cigarette Smoking in Normal and Hypertensive Subjects (BP, Renin, Aldosterone and Catecholamines) Baer (#1160R2)</p>	<p>a. 7-Ketocholesterol Inhibition of Cholesterol Uptake: CO/Cholesterol Metabolism of Arterial Wall Bing (#310D)</p> <p>b. Endothelial Cells: Platelets 1. Mason (#939BR1M) 2. Chao (#1162A) 3. Lee (#1261)</p> <p>c. Role of LCAT (Smokers/Non-Smokers) Soloff (#1201R1)*</p> <p>d. Smoke Exposed Pigeons (blood lipids) Hojnacki (#1229M1)</p> <p>e. Oxygenated Sterols in Human Blood Vessels Le Quesne/ Werthessen (#1271M)</p>	<p>a. Endothelial Cell and Platelet Response to Cigarette Smoke, Nicotine and CO 1. Mason (#939BR1M) 2. Chao (#1162A)</p> <p>b. Platelet Microtubule Assembly: Aggregation. Effects of Ligands (Nicotine) Lee (#1261R1)</p> <p>c. Nicotine Inhibition of Prostaglandin Biotransformation (platelet-vascular endothelium interactions). Wennmalm (#1300)</p> <p>d. Platelet Derived Growth Factor Antoniades (#1332)</p>	<p>a. Metabolic Activities of Pulmonary Endothelium: angiotensin I-II, Thromboxanes, Prostaglandins Ryan (#814BR2)</p> <p>b. Nicotine Inhibition of Prostaglandin Biotransformation Wennmalm (#1300)</p>	<p>a. Tobacco Allergens Gleich (#1014BR1)</p>	<p>SEE EPIDEMIOLOGY</p>

TERMINATES/ED

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PULMONARY STUDIES SUPPORTED IN 1980 (FOR SAB MEETING, OCTOBER 1980)

<u>EMPHYSEMA/BRONCHITIS</u> <u>RDS/INFLAMMATION</u> <u>DISEASES</u>	<u>EMPHYSEMA/BRONCHITIS</u> <u>CONTINUED</u>	<u>ENVIRONMENTAL</u> <u>(Cigarette Smoke;</u> <u>Active/Passive)</u>	<u>ENVIRONMENTAL</u> <u>CONTINUED</u>	<u>SPECIAL MORPHOLOGICAL</u> <u>SPECIAL FUNCTIONS OF</u> <u>LUNG</u>	<u>IMMUNE MECHANISMS</u> <u>IMMUNOGLOBULIN PRODUCTION:</u> <u>HYPERSensitivity: ALLERGY</u> <u>(CHRONIC BRONCHITIS)</u>	<u>MACROPHAGE STUDIES</u>
<p>I. Proteases: Antiproteases</p> <p>a. Mechanisms: Biochem (Elastase, o-LAP): 1. Travis/Powers (#1135A) 2. Johnson (#1217R1)</p> <p>b. Experimental Emphysema:Lung Lesions 1. Weinbaum (#901B) 2. Geokas (#1088A)</p> <p>c. Susceptibility to COPD In Smokers 1. PMA-Elastase (O2MGO/A-JAP, anionic hydrophobic agents Caldston (#1242R1)) 2. Pancreatic Elastase Circulating Levels (RIA method) o-LAP Geokas (#1088A)</p> <p>d. Mechanisms: Biochem and Inhibitors of Proteases: 1. Synthetic Inhibitors: Travis/Powers (#1135A)</p> <p>2. Endogenous Inhibitors (Lung) Johnson (#1217R1)</p> <p>3. Macrophage Protease Inhibitors O'Donnell (#1245)</p>	<p>II. Purification of Macrophage Elastase</p> <p>III. Elastin Biosynthesis</p> <p>IV. Elastin Degradation: (Measurement by RIA) Janoff (#1259)</p> <p>V. Delivery of Synthetic Protease Inhibitors by Microspheres</p> <p>Liener (#1214)*</p>	<p>I. Human Studies</p> <p>a. Respiratory Disease In Infancy Development of Lung Disease in Adults C. Hall (#1171R2)</p> <p>II. Airway Hyperreactivity (Canine): (Ozone:Cigarette Smoke)</p> <p>b. J. Nadel (#1311)</p> <p>c. Ozone on Airway Mast Cells Cigarette Smoke (Canine)</p> <p>(On Neurohumoral modulation/histamine release: cyclic AMP/GMP). W. Gold (#1327)</p> <p>d. Predisposition to COPD</p> <p>H. Goldstrom (#1242R1)</p> <p>e. Airway Hyperreactivity (Ozone:Cigarette Smoke)</p> <p>J. Nadel (#1311)</p> <p>f. Alveolar Clearance Rate of Inert Particles: (Non-Invasive, Magnetic Technique).</p> <p>A. Freedman (#1321)</p> <p>II. Animal Studies</p> <p>a. Morphological and Metabolic (phospholipids:biochemistry) Cigarette Smoke On Fetal and Perinatal Lung Development and Metabolism (Rat) M. Hamosh (#1308)*</p>	<p>II. Environmental</p> <p>CONTINUED</p>	<p>I. Endocrine Functions</p> <p>a. Endocrine-Like Cells In Airways: (Effects of Hypoxia and CO) Echt (#1244A)</p> <p>b. APUD CELLS: (Endocrine like cells of lung, and their local neurohormonal control mechanisms) 1. Will (#1036AR2) 2. Kleinerman (#1190)*</p> <p>c. Metabolic Activities of Pulmonary Endothelium: (Angiotensin I-II; Thromboxanes/Prostaglandins etc.) Ryan (#8014R2)</p> <p>d. Mast Cells: W. Gold (#1327)</p>	<p>I. Tobacco Antigen</p> <p>Gleich (#1014R1)</p> <p>II. Cigarette Smoking and Ig Production: Human Bronchial Lymphocyte</p> <p>Lawrence (#1215R1)</p>	<p>I. Immunological</p> <p>a. Lawrence (#1215R1) b. Springer (#1307) c. Herscovitz (#1045B) d. Unanue (#1030AR1)</p> <p>II. Proteases</p> <p>a. Travis (#1135A) b. Weinbaum (#901B) c. O'Donnell (#1245)</p> <p>III. Contractile Proteins: Plasma Membrane (Rabbit)</p> <p>Stossel (#1116A)</p> <p>IV. Factors in Pulmonary Inflammation</p> <p>Cochrane (#764HR1)</p>

TERMINATES/ED
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PSYCHOPHARMACOLOGY AND PHARMACOLOGICAL STUDIES SUPPORTED IN 1980 (FOR SAB MEETING, OCTOBER 1980)

<u>HUMAN STUDIES</u> (Cigarette Smoking)	<u>ANIMAL STUDIES</u> (Behavioral/Biochemical)	<u>ANIMAL STUDIES</u> (Metabolic)	<u>ANIMAL STUDIES</u> (Metabolic) CONTINUED	<u>ANIMAL STUDIES</u> (Nicotine Receptors/Binding) Sites and Absorption)	<u>NICOTINE-METABOLITES/</u> <u>DERIVATIVES</u>
<p>a. <u>Behavioral Effects: a) Non-Smokers and Exposure to Smoking, b) Smoking-Deprivation</u> Heimstra (#1081R1)</p> <p>b. <u>Influence of Pregnancy on Metab./Excretion of Nicotine (urine/amniotic fluid/breast milk/fetal tissue/blood)</u> Gorrod (#1194R1)*</p>	<p>I. <u>Genetics/Nicotine/Smoke</u></p> <p>a. <u>Neurochemical and Behavioral Effects of Nicotine and Alcohol</u> Collins (#1204R2)</p> <p>b. <u>Nicotine: Isolated Perfused Mouse Brain Biogenic Amines</u> Erwin (#1251A)</p> <p>c. <u>Cigarette Smoke:Nicotine Alcohol</u> Petersen (#1243R1)</p>	<p>I. <u>Nicotine/Cotinine</u></p> <p>a. <u>Actions of Nicotine on Serum Pancreatic Elastase Levels:(Dogs)</u> Geokas (#1088A)</p> <p>b. <u>Effects on Catecholamine and Neuroendocrines:</u> Fuxe (#1223R1)</p> <p>c. <u>Nicotine Isolated Perfused Mouse Brain. Biogenic Amines</u> Erwin (#1251A)</p> <p>II. <u>Tobacco Smoke/Nicotine/CO</u></p> <p>a. <u>Action on Acetylcholine System (Human Placenta)</u> Rama Sastry (949B)</p> <p>b. <u>Brain-Development: Nicotine/Smoke Effects</u> 1. Lewis (#1187MR1) 2. Lajtha (#1234A)</p> <p>c. <u>Nicotine Metab./Pregnancy</u> Gorrod (#1194R1)*</p>	<p>III. <u>Guanylate Cyclase:Nitric Oxide Effects</u></p> <p>a. <u>Cyclic GMP/Free Radicals</u> Braughler (#1304)</p> <p>b. <u>Murad (#1186R2)</u></p>	<p>I. <u>Central Nicotine Receptor</u></p> <p>a. Tometsko (#1161R2) b. Collins (#1204R2)</p> <p>II. <u>Neural Tissue Receptors-Genetics (Drosophila Melanogaster Mutants)</u> Hall, L. (#1126ARI)</p> <p>III. <u>Receptors Spectroscopic Studies</u> D. Nelson (#1230R1)</p> <p>IV. <u>Receptors: Blood Cells</u> Hoss (#1235R1)</p>	<p>I. <u>RIA For Nicotine Metabolites</u></p> <p>a. <u>RIA</u> Castro (#884C)</p> <p>b. <u>Synthesis of Antigens</u> McKennis (#1054A)</p> <p>II. <u>Nicotine Derivatives (Synthesis for Receptor Studies)</u> Tometsko (#1161R2)</p> <p>III. <u>Nicotine-Metab./Excretion: Pregnancy Influence of</u> Gorrod (#1194R1)*</p> <p>IV. <u>Nicotine: Delivery Systems: Metabolism</u> Erickson (#1208A)</p>

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MISCELLANEOUS STUDIES SUPPORTED IN 1980 (FOR SAB MEETING, OCTOBER 1980)

<u>REPRODUCTION</u>	<u>IMMUNOLOGY</u> (See Cancer Studies)	<u>IMMUNOLOGY</u> (CONTINUED)
<p><u>I. Human</u></p> <p><u>Nicotine Effects</u> (Human Placenta)</p> <p><u>Acetylcholine System:</u> Rama Sastry (#949B)</p> <p><u>II. Animal</u></p> <p>(a) <u>Nicotine: CO</u> (Cell Cleavage:Implantation Gestation) Mitchell (#1012AR2)*</p> <p>(b) <u>Brain Development:</u> <u>Offspring</u> (NICOTINE/TOBACCO SMOKE) 1. Lewis (#1187MR1) 2. Lajtha (#1234A)</p>	<p><u>I. Basic Studies</u></p> <p>(a) <u>Biology of Supressor-T Cells</u> Pierce (#1040A)*</p> <p>(b) <u>Normal and Activated Macrophages</u> Unanue (#1030AR1)</p> <p>(c) <u>Lung Immunology</u> Lawrence (#1215R1)</p> <p>(d) <u>Lymphocytes:Cell Surface Membranes/Proteins</u> Cytoskeleton, In Aging and Cancer(Rat) (cell recognition:cell surface receptors) Woda (#1287)</p> <p><u>II. Macrophage</u></p> <p>(a) <u>Normal-Activated</u> Unanue (#1030AR1)</p> <p>(b) <u>Cigarette Smoke:</u> <u>Developmental cellular/molecular aspects of immune response</u> Herscowitz (#1045B)</p>	<p>(c) <u>Macrophage Subpopulations:Differentiation:Monoclonal Antibodies.</u> (Cell Surface Antigens). Springer (#1307)</p> <p><u>III. Lymphoid Cell Homing and Function:</u> (effects of tobacco byproducts) Gillette (#1163MA)*</p> <p><u>IV. Allergy (Tobacco Antigen)</u> Gleich (#1014BR1)</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p><u>TERMINATES/ED</u></p> <p>* 6/30/80</p> </div>

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EPIDEMIOLOGICAL STUDIES SUPPORTED IN 1980 (FOR SAB MEETING, OCTOBER 1980)

(HEALTH/DISEASE/MORTALITY: RELATION TO SMOKING/ENVIRONMENTAL)

<u>SMOKING: NON-TWIN STUDIES</u>	<u>SMOKING: TWIN STUDIES</u>	<u>PROTEASES: ANTIPROTEASES</u> (See Pulmonary Studies)	<u>CANCER</u>
<p>1. <u>Epidemiological Pulmonary Function in Adolescents: Parents Pulmonary Pathologies and Smoking Histories</u> van den Berg (#1171R2)</p>	<p>(a) <u>Swedish Twin Registry</u> Friberg (#1136A)</p> <p>(b) <u>Finnish Twin Registry</u> Rantasalo (#953AR2)</p> <p>(c) <u>Susceptibility Indices for Lung Cancer: Immunoochemical and Other Markers</u> Guirgis (#1132MR2)*</p>	<p>I. <u>Smoking:Non-Smoking:Blood Levels-Pancreatic Elastase (RIA)</u>. Geokas (#1088A)</p> <p>II. <u>Cigarette Smoking-COPD</u>: Galdston (#1242R1)</p>	<p>I. <u>Familial Aggregations, Genetics and Biomarkers of Smoking-Associated Cancers</u></p> <p>(a) Lynch (#1291M)</p> <p>(b) Guirgis (#1132MR2)*</p> <p>(c) Gessner (#1174R2)</p> <p>II. <u>Lung Cancer: PAH Metabolism</u> Curtoo (#1253R1)</p> <p>III. <u>Bladder Cancer</u> Wolf (#1208C)</p>

Terminates/ed
 * 12/31/80
 ** 6/30/80
 *** 4/30/80

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